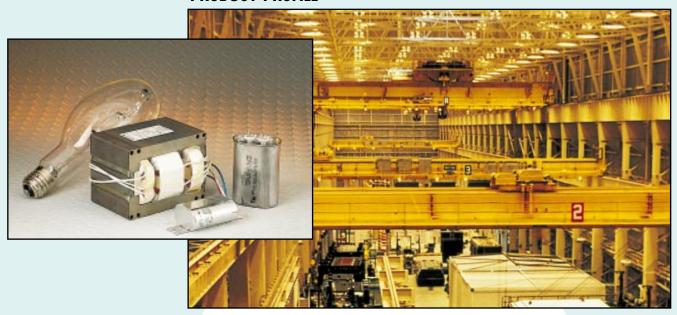
Regulated Lag Pulse-Start Metal Halide Ballast

Premium Lamp/Ballast System Performance For Long Burning HID Applications

PRODUCT PROFILE



Definition

Advance Transformer's Regulated Lag ballasts for pulse-start metal halide lamps are specifically designed to provide long lamp life, improved lumen maintenance, and voltage-dip tolerance to meet the lighting needs of heavy industry. Superior lamp wattage control is achieved within the ballast by the inclusion of a regulation sub-circuit consisting of a capacitor across a third ballast coil. Because the ballast is a lag design, the lamp current waveform is virtually a sine wave keeping the crest factor below 1.5 (vs. 1.8 of the lead-peak CWA ballasts used with traditional probe-start lamps).

The lamp wattage regulation is 10:4—a 10% change in line voltage results in only a 4% change in lamp wattage. Voltage dips of up to 50% are possible without lamp dropout. Limiting lamp wattage excursion and reducing the lamp current crest factor lead to long lamp life with high lumen maintenance and excellent color control. These characteristics make the Advance Regulated Lag ballast ideal for situations where lamps are operated on long or continuous burning cycles, lamp change-out costs are high, long runs are present, or where large voltage dips are possible.

Pulse-start ballasts utilize a separate ignitor to start the lamp. The addition of the ignitor to the metal halide ballast circuit fostered the development of pulse-start lamps and ballasts, a lighting system significantly superior to the original probe-start metal halide technology. The Advance Regulated Lag ballast's superior characteristics further improve the performance of pulse-start lamps such that metal halide is now competitive with high pressure sodium in even the most demanding applications.

Advance Regulated Lag ballasts for metal halide lamps are available for most popular wattages and system voltages. Refer to the ballast specifications on the reverse side for details.

Description

- · Premium performance 3-coil ballast
- 175, 200, 250, and 400 watt pulse-start lamp operation
- Maximizes lamp life (up to 40,000 hours continuous burn)
- Improves color consistency (+/- 200°k color control over life)
- · Lifecycle cost-efficient white light

Features and Benefits

Feature

Low 1.5 crest factor and premium lamp wattage regulation

Benefit

- Up to twice the lamp life of a conventional metal halide system for reduced maintenance costs.
- Greater consistency in lamp-to-lamp output and color for better quality light.
- Minimizes impact of high or low system voltages that may be associated with heavily varying loads, heavily loaded circuits and/or long runs.

Improved lumen maintenance

50% voltage dip withstand

Fewer fixtures required.

Lamps stay lit in applications where larger voltage fluctuations are present.



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Advance Regulated Lag Ballast Specifications

with potted ignitor and oil-filled capacitor, 60hz, min. starting temperature -40°F/-40°C

		MAX	NOM. OPEN	FUSE		CORE & COIL DIMENSIONS			NON-PC	B OIL-FILI	ED CAPACITOR		TOTAL	IGNITOR		U.L. BENCH
INPUT VOLTS	CATALOG [†] NUMBER	WATTS INPUT	INPUT CURRENT	CIRCUIT VOLTAGE	RATING (AMPS)					MIN	DIA.	HT.	WEIGHT	PART	MAX. DIST.	TOP RISE
				VULIAGE	(AIVIPS)	FIG	Α	В	MFD	VOLT	(IN)	(IN)	(LBS)	NUMBER	TO LAMP (FT)	CODE 1029
175 WATT LAMP, ANSI CODE M-137																
120	71A5504	220	2.00	310	5	3	1.70	3.5	17	400	1.75	3.40	12.5	LI534-H5	2	А
277	71A5534-T		.85		2											
347	71A55B4-T		.70		2											
480	71A5544-T		.50		1											
200 WATT LAMP, ANSI CODE M-136																
277	71A5634-T	244	.90	305	3	3	2.00	3.7	17	400	1.75	3.40	15.0	LI534-H5	2	Α
250 WATT LAMP, ANSI CODE M-138																
120	71A5704		2.75		8											
240	71A5724-T		1.40		4											
277	71A5734-T	298	1.20	305	3	3	2.50	4.2	16	480	1.75	3.40	16.0	LI534-H5	2	Α
347	71A57B4-T		.95		3											
480	71A5744-T		.70		2											
400 WATT LAMP, ANSI CODE M-128 & M-135																
120	71A6004		3.95		10											
208/240	71A60E4-T		2.30/2.00		6/5											
277	71A6034-T	465	1.70	315	5	3	3.75	5.5	21	500	1.75	3.90	26.0	LI534-H5	2	Α
347	71A60B4-T		1.35		4											
480	71A6044-T		1.00		4											
50Hz 230	71A60S4-T	472	2.10	310	6	3	4.05	5.9	32	480	1.75	5.30	27.0	LI534-H5	2	В

[†]Ordering information – add proper suffix to catalog number

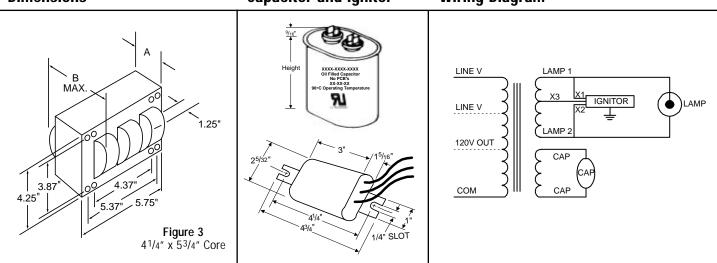
-600 core & coil only, no capacitor

Note: -T denotes 120volt output tap for quartz stand-by lighting

Dimensions

Capacitor and Ignitor

Wiring Diagram











⁻⁵⁰⁰ includes core & coil with oil-filled capacitor